

**Centers for Disease Control and Prevention  
Model Performance Evaluation Program  
Human T-Lymphotropic Virus Types I and II  
(HTLV-I/II) Testing**

**Figures Used to Summarize the  
Candidate Reference Laboratory Results  
for the October 6, 1997 Shipment**



**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES**

**Public Health Service**

**Centers for Disease Control and Prevention**

**Public Health Practice Program Office**

**Division of Laboratory Systems**

**Atlanta, Georgia 30333**



**Use of trade names is for identification only and does not constitute endorsement by the  
Public Health Service or by the U.S. Department of Health and Human Services.**

Report of the October 6, 1997 Human T-lymphotropic virus types I and II (HTLV-I/II) Performance Evaluation Sample Testing Results Provided by Candidate Reference Laboratories in the Model Performance Evaluation Program, Centers for Disease Control and Prevention (CDC).

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**Centers for Disease Control and Prevention (CDC)  
Model Performance Evaluation Program  
Human T-Lymphotropic Virus Types I and II (HTLV-I/II) Testing  
October 6, 1997 Candidate Reference Laboratory Shipment**

**Table 1**

Vial Label Number	CDC Donor Number	CDC Contractor Result <sup>2</sup>	Laboratory Interpretation <sup>1</sup>			
			EIA		WB	IIF
			INIT. <sup>3</sup>	FINAL <sup>4</sup>		
01	06	Positive	—	—	—	—
02	08	Positive	—	—	—	—
03	11	Negative	—	—	—	—
04	15	Negative	—	—	—	—
05	03	Positive	—	—	—	—
06	05	Positive	—	—	—	—
07	09	Negative	—	—	—	—
08	07	Positive	—	—	—	—
09	12	Negative	—	—	—	—
10	13	Negative	—	—	—	—
11	02	Positive	—	—	—	—
12	16	Negative	—	—	—	—
13	10	Negative	—	—	—	—
14	04	Positive	—	—	—	—
15	01	Positive	—	—	—	—
16	14	Negative	—	—	—	—

<sup>1</sup> Laboratory Interpretation space (to be completed by candidate reference laboratory) provided to facilitate comparison of candidate reference laboratory result with CDC result.

<sup>2</sup> The CDC result was obtained by contractor after composite EIA, WB, and RIPA testing, and employing the interpretation criteria of the Public Health Service Working Group.

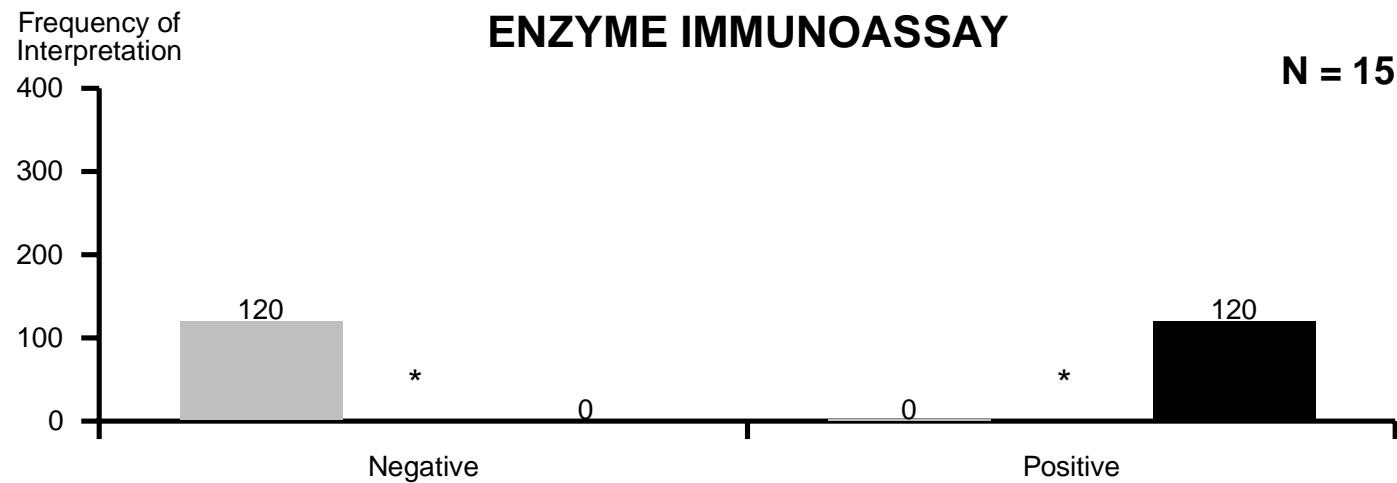
<sup>3</sup> Initial EIA interpretation

<sup>4</sup> Final EIA interpretation

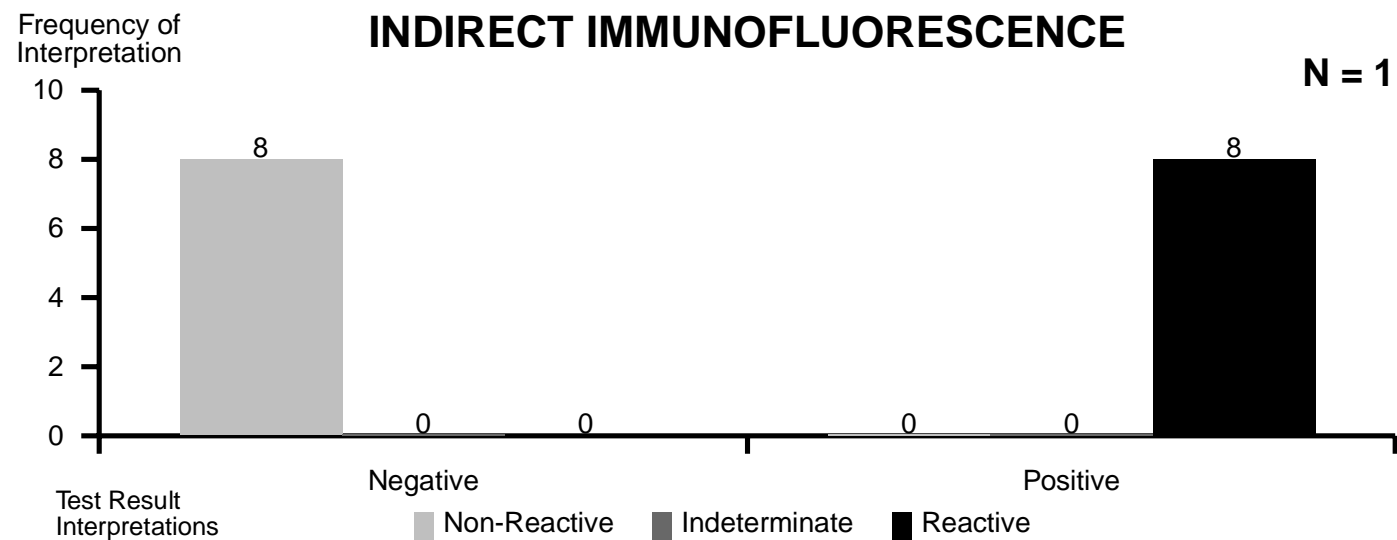
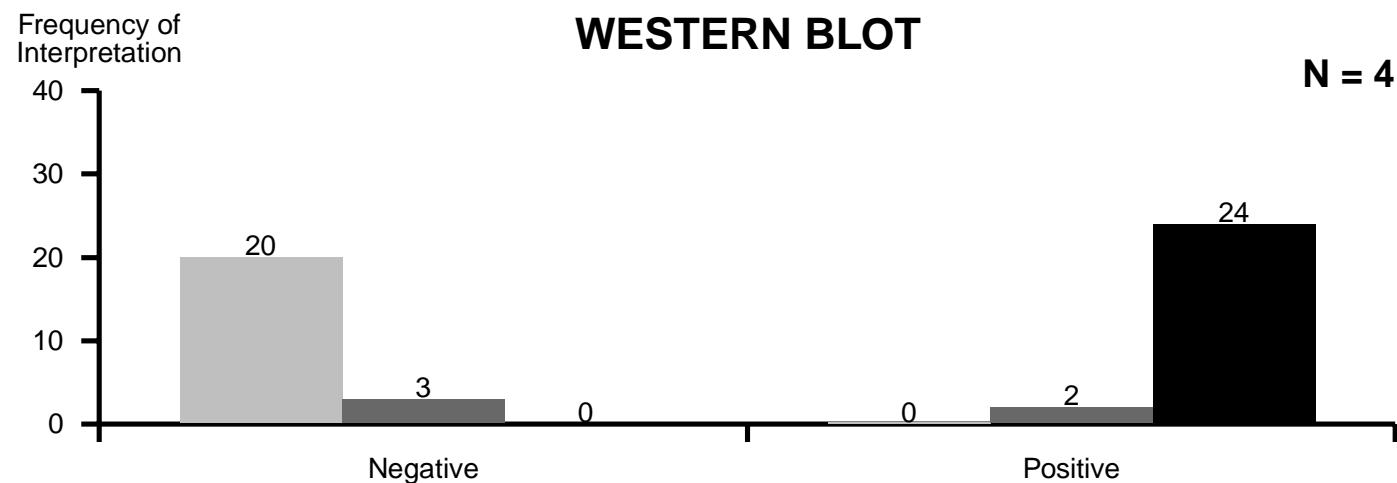
## **SUPPLEMENTAL INFORMATION FOR COMPREHENDING THE NUMBERS USED TO LABEL FIGURES IN THIS REPORT**

The "N=" that appears on each graph represents the number of laboratories that reported results. For some graphs, laboratories reported results using more than one test; therefore, the number of results may exceed the actual number of laboratories providing reports. In figures 1-7 and 10, the vertical axis is labeled either as frequency or percentage of results; in figures 8 and 9, this axis is labeled as percentage of reports. However, in all figures, the number appearing directly above or within each bar represents a frequency of results only.

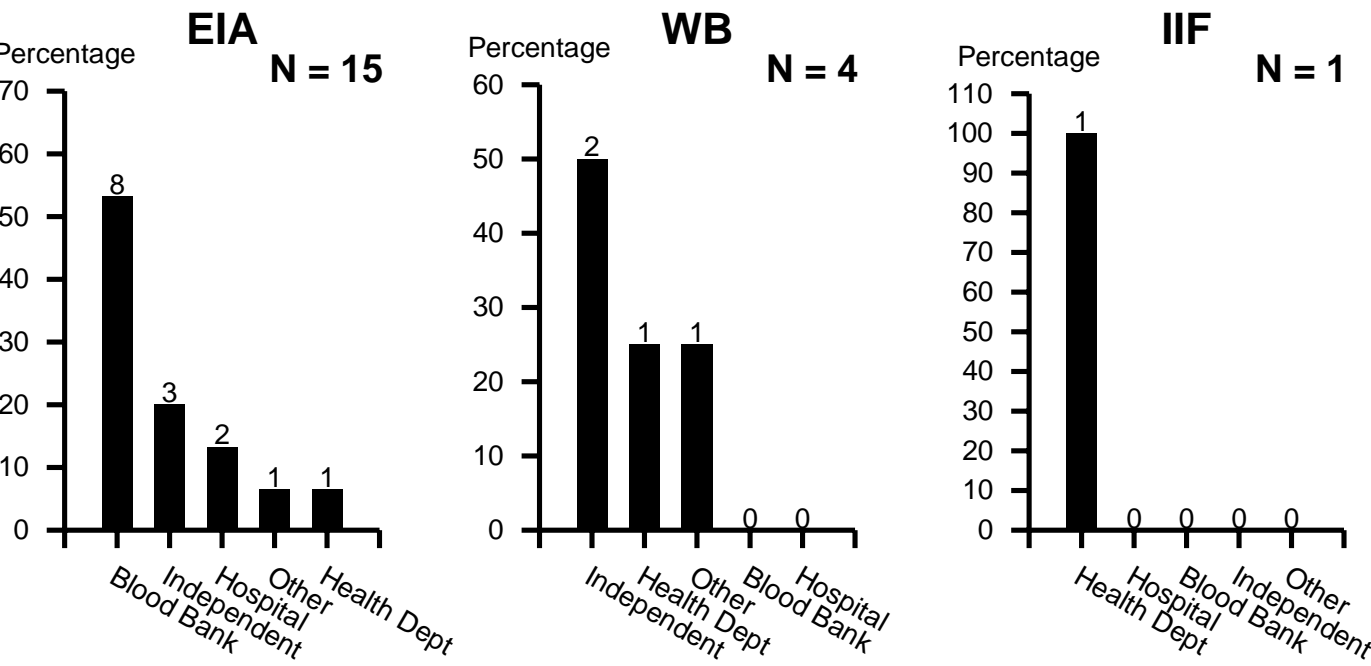
**Figure 1. Frequency of HTLV-I/II antibody test result interpretations, by sample type (reactivity), for enzyme immunoassay (EIA), Western blot (WB), and indirect immunofluorescence (IIF), reported by reference laboratories for the October 6, 1997 shipment**



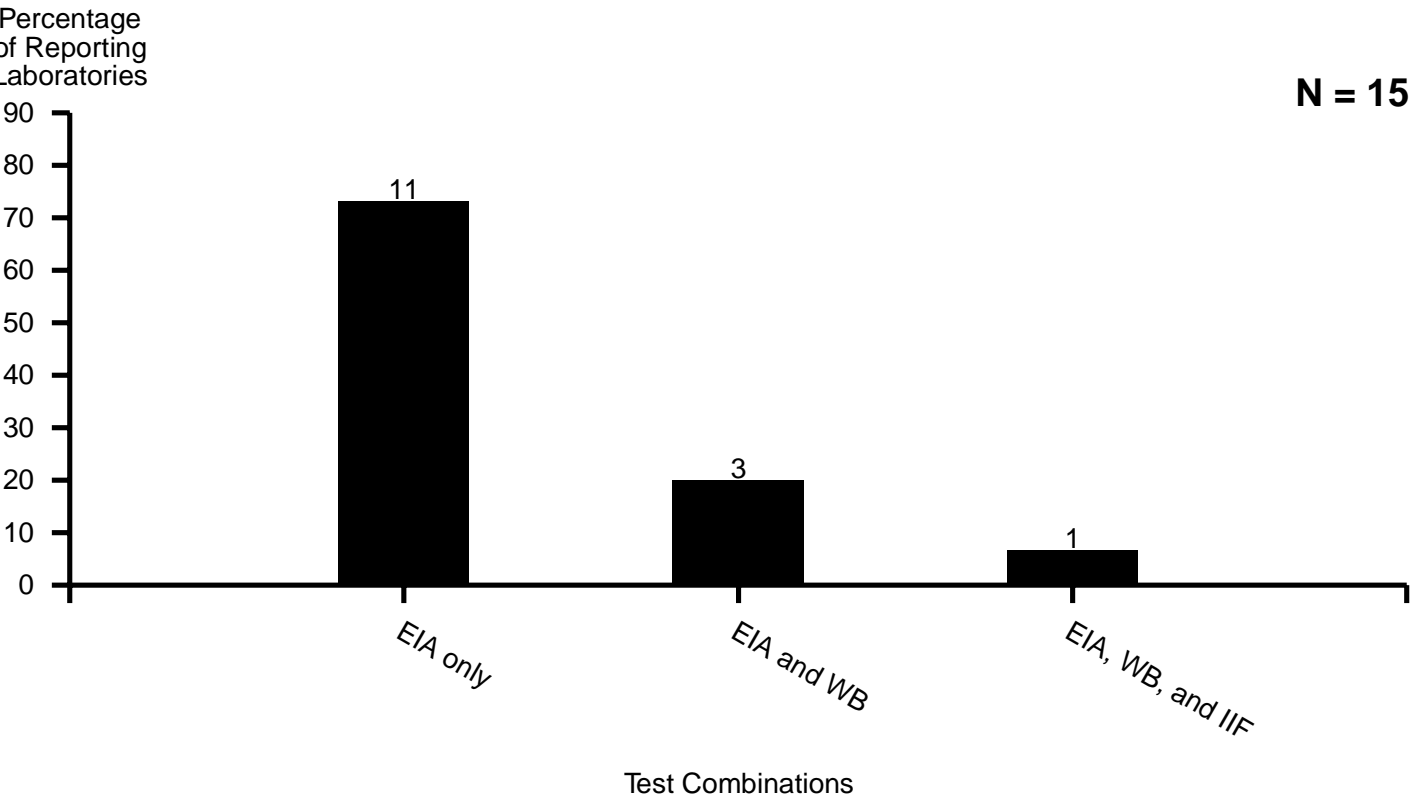
\* = Indeterminate is not an EIA interpretation option; these areas have been left blank



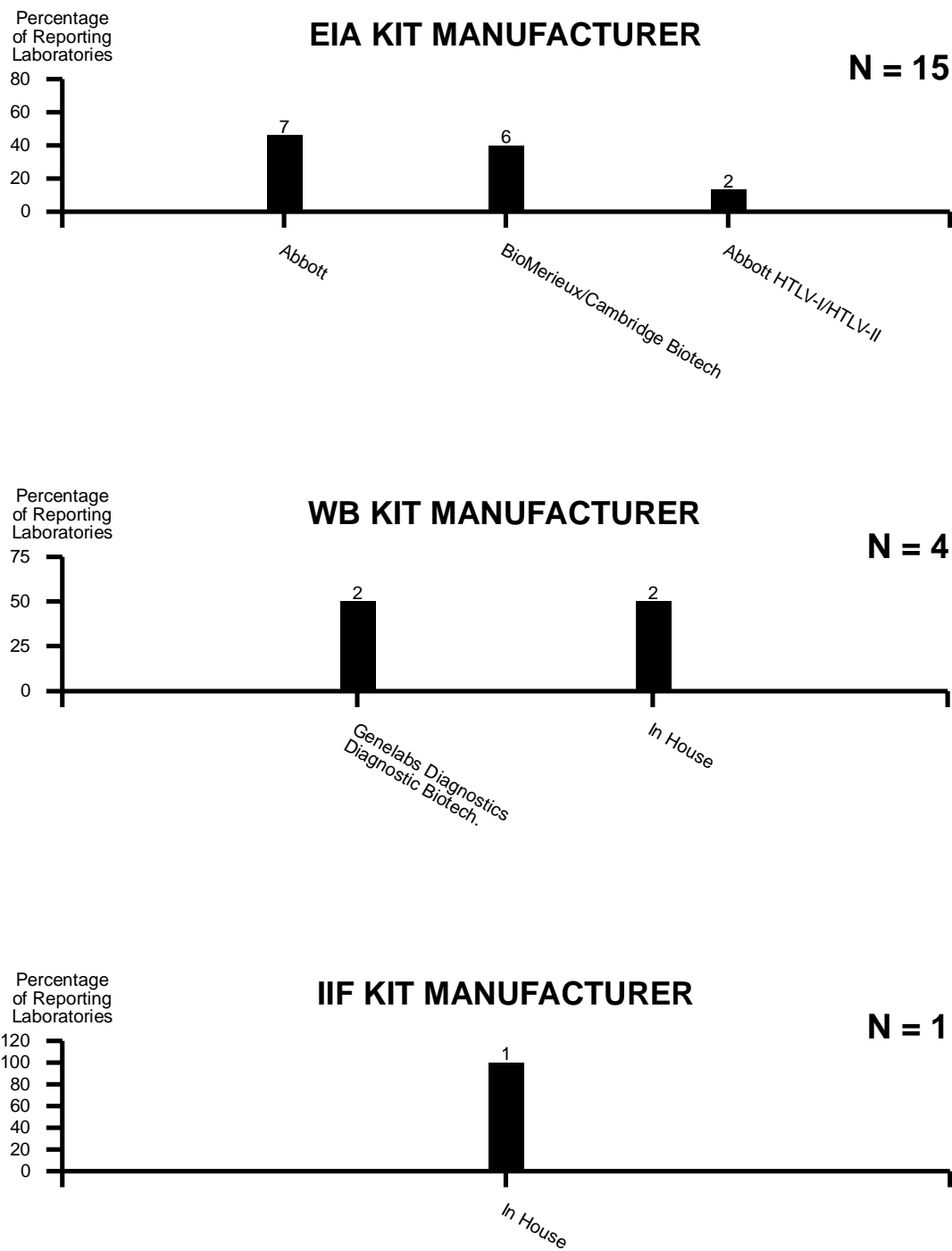
**Figure 2. Percentage of HTLV-I/II reference laboratories, by laboratory type, that reported EIA, WB, and IIF results to the CDC for the October 6, 1997 shipment**



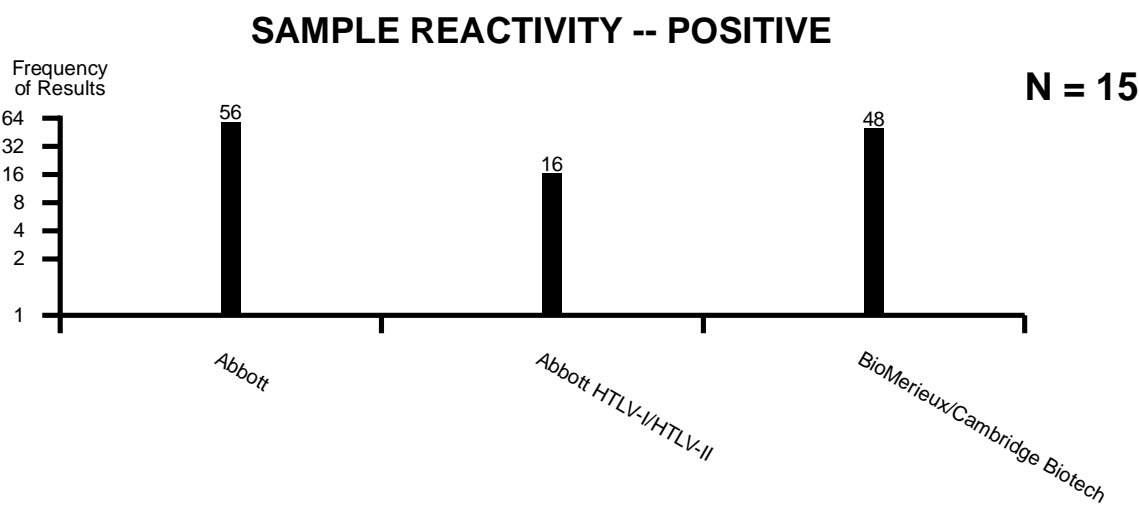
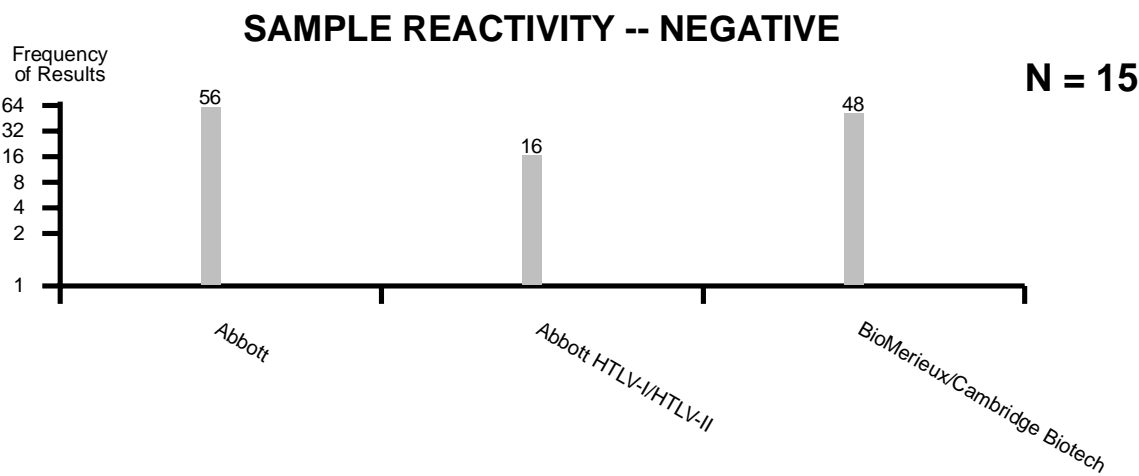
**Figure 3. Combination of HTLV-I/II antibody tests reported by reference laboratories for the October 6, 1997 shipment**



**Figure 4. Types of HTLV-I/II antibody test kits used for enzyme immunoassay, Western blot, and indirect immunofluorescence, as reported by reference laboratories to the CDC for the October 6, 1997 shipment**



**Figure 5. Enzyme immunoassay HTLV-I/II antibody test results, by kit manufacturer, reported by reference laboratories for the October 6, 1997 shipment**

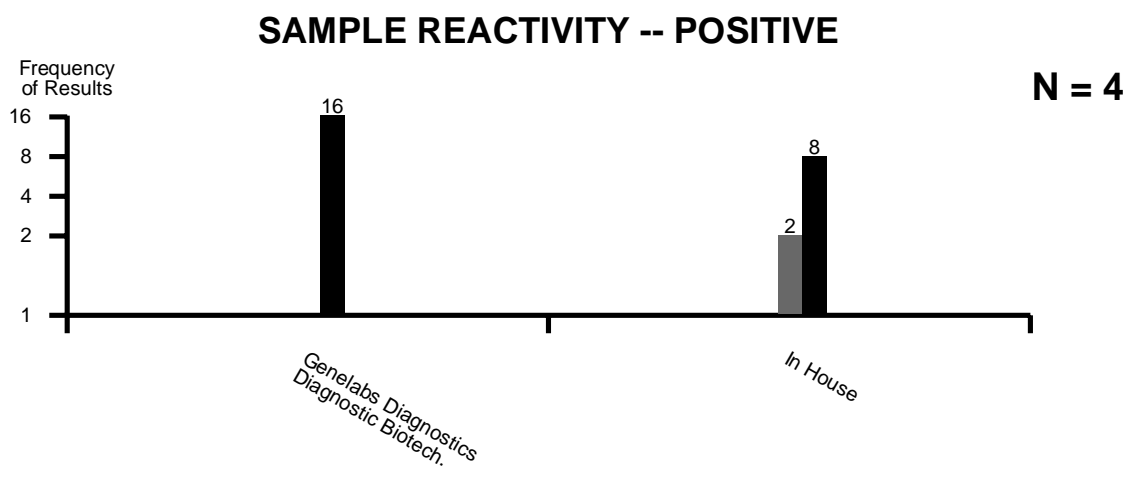
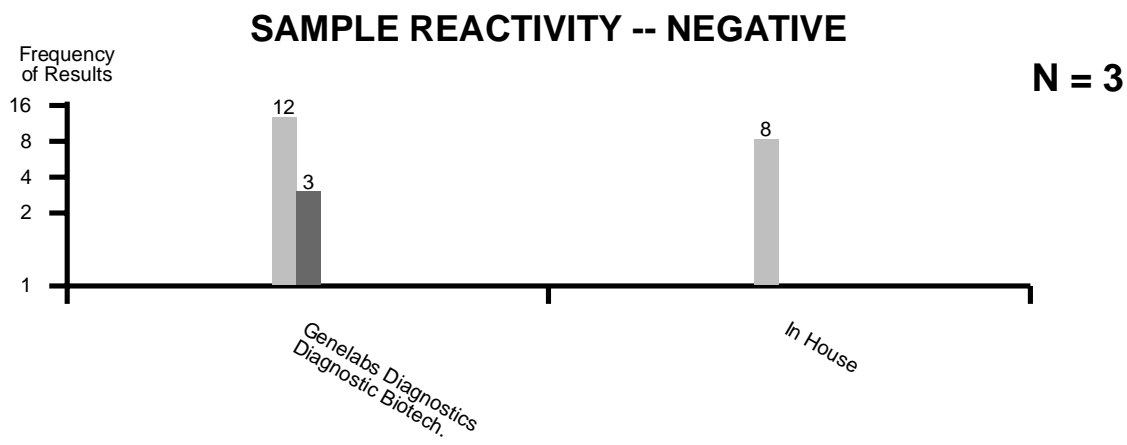


Test Result Interpretations

■ Non-Reactive   ■ Reactive



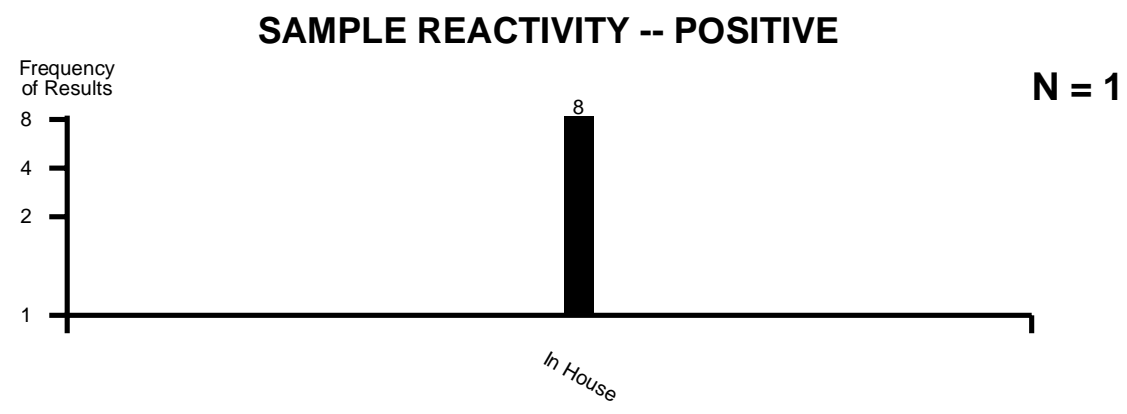
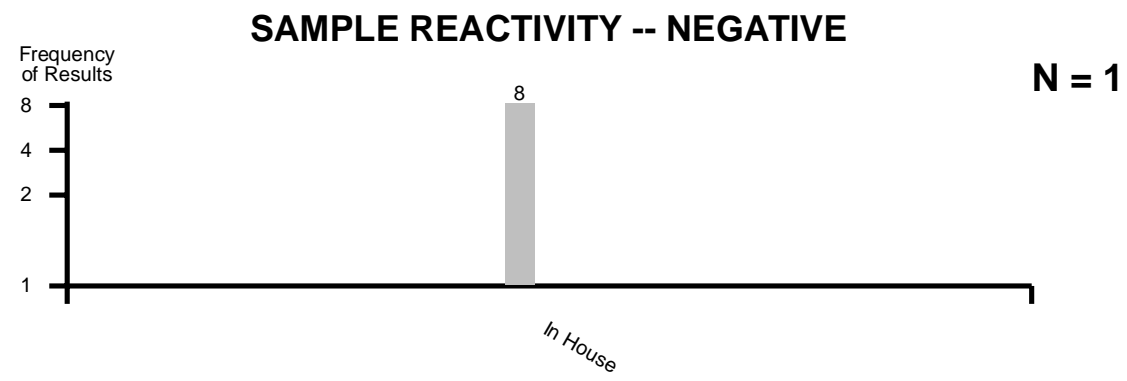
**Figure 6. Western blot HTLV-I/II antibody test results, by kit manufacturer, reported by reference laboratories for the October 6, 1997 shipment**



Test Result Interpretations

■ Non-Reactive   ■ Indeterminate   ■ Reactive

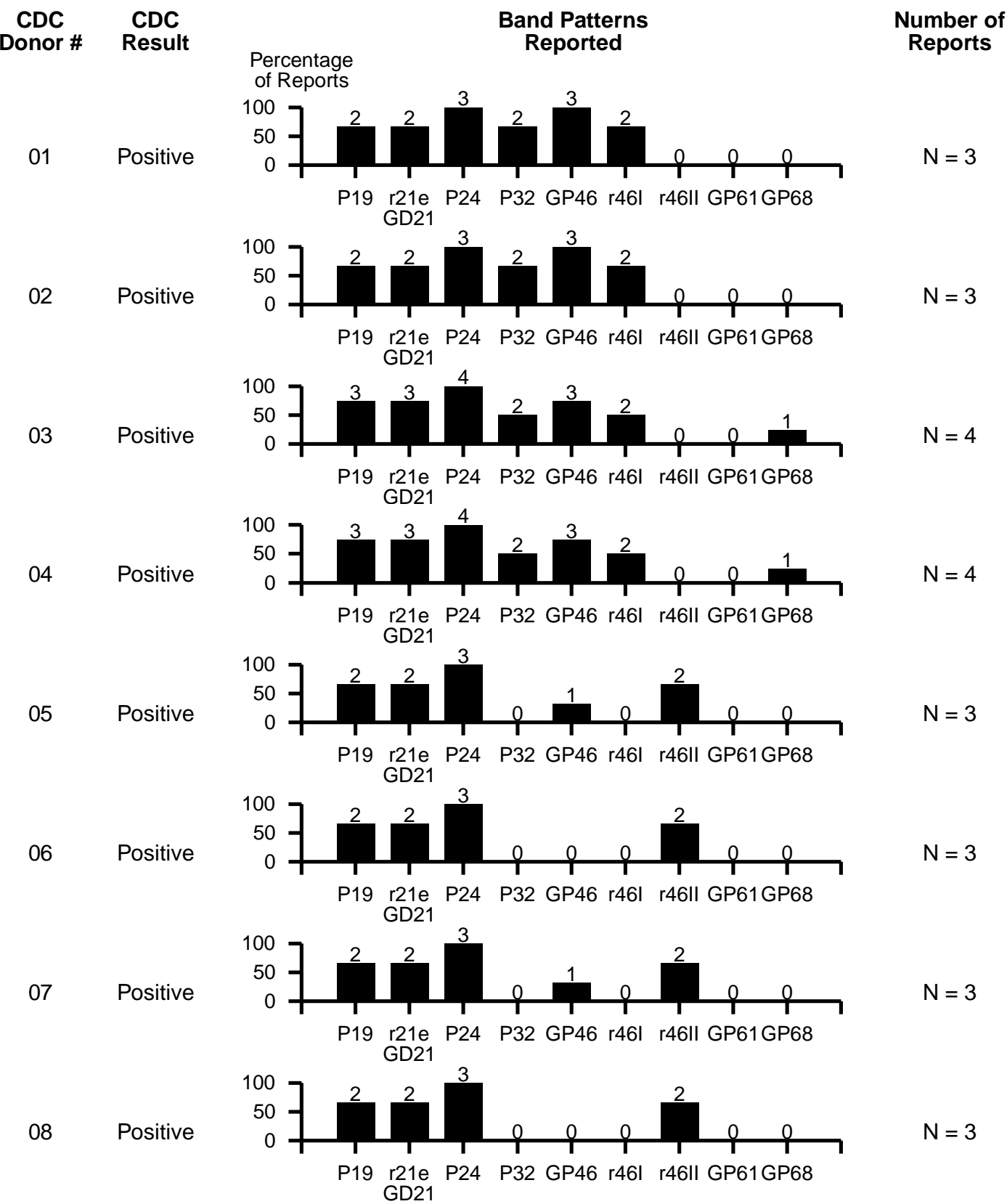
**Figure 7. Indirect immunofluorescence HTLV-I/II antibody test results, by kit manufacturer, reported by reference laboratories for the October 6, 1997 shipment**



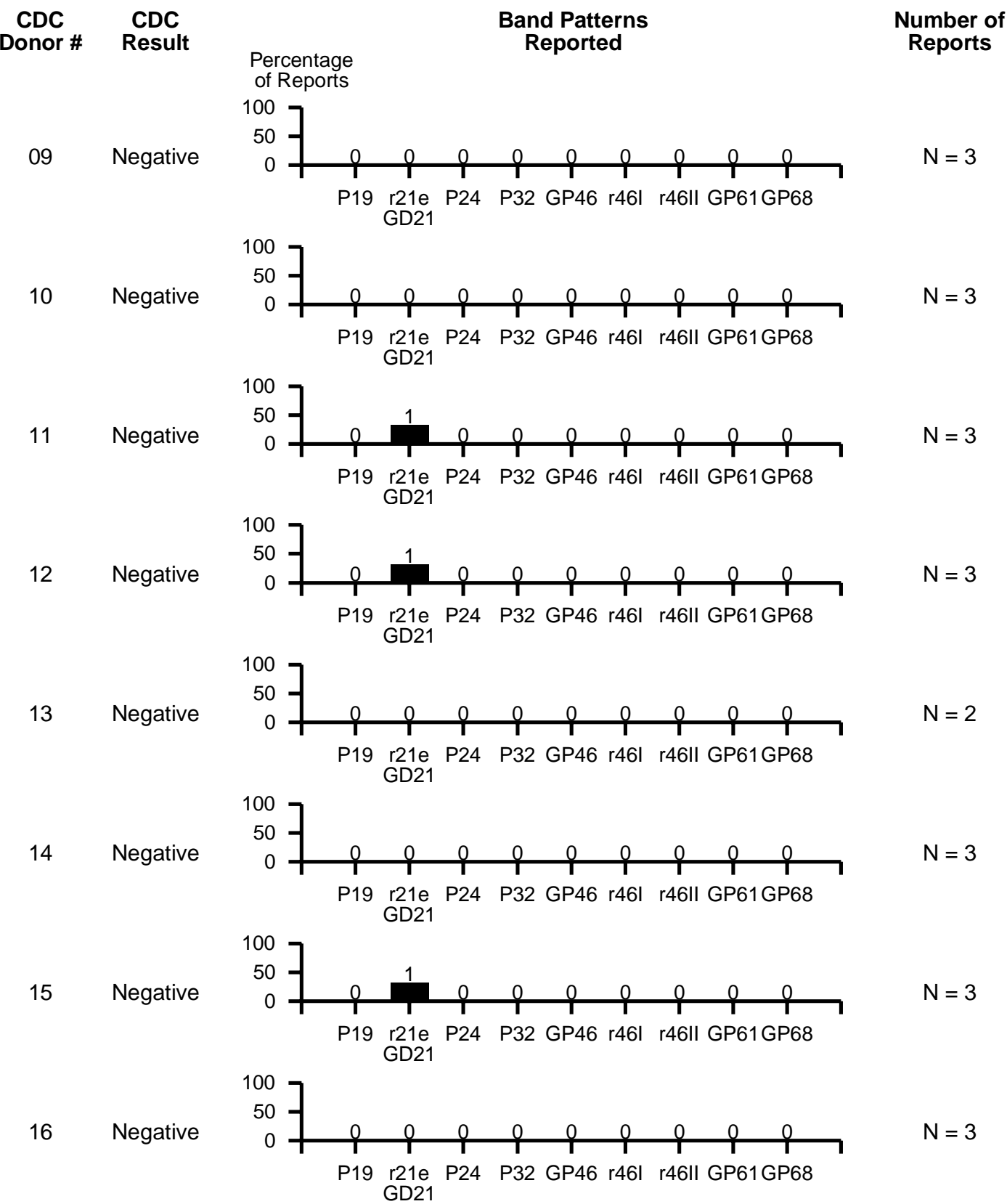
Test Result Interpretations

■ Non-Reactive   ■ Indeterminate   ■ Reactive

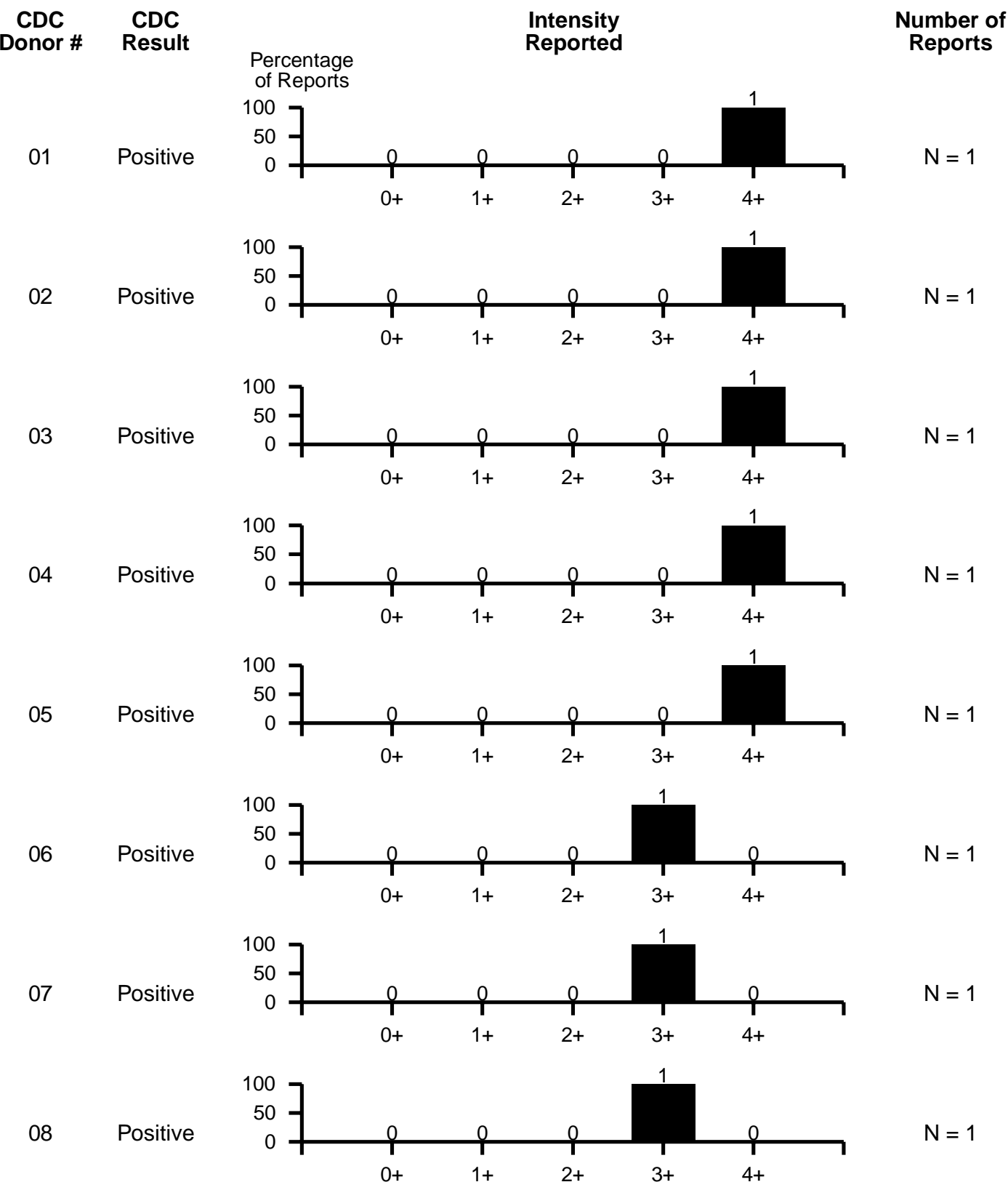
**Figure 8. Western blot HTLV-I/II antibody band patterns reported to CDC by reference laboratories for the October 6, 1997 shipment**



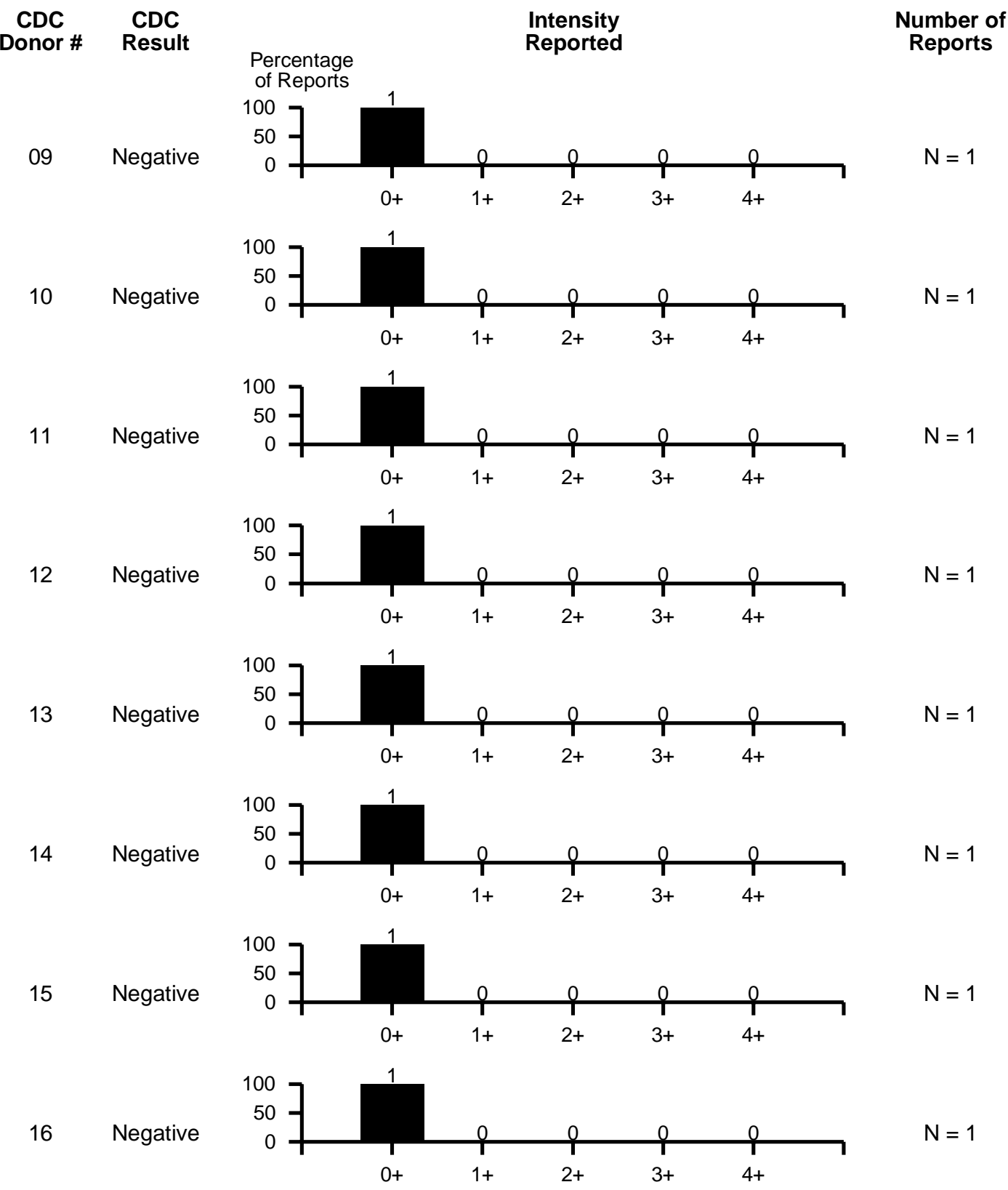
**Figure 8. Western blot HTLV-I/II antibody band patterns reported to CDC by reference laboratories for the October 6, 1997 shipment**



**Figure 9. Fluorescence intensity patterns, of HTLV-I/II-infected cells, for IIF results reported to CDC by reference laboratories for the October 6, 1997 shipment**



**Figure 9. Fluorescence intensity patterns, of HTLV-I/II-infected cells, for IIF results reported to CDC by reference laboratories for the October 6, 1997 shipment**



**Figure 10. Types of 'Other' HTLV antibody test kits used and results reported by reference laboratories to the CDC for the October 6, 1997 shipment**

